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Review, Department Of Defense
DTIC QUALITY INSPECTED 4



### BMDO's CHALLENGE...

- Develop An FoS Interoperability Testing Approach That
- Ensures The TMD Building Blocks "Plug And Fight"
- Accommodates Time Phased Development Of Systems
- Verifies FoS Interoperability Throughout Its Life









Range / Altitude Variances

Quantity (Raid / Campaign / Time On T Warhead Design (Conventional / WMD

Fechnology (Low Signature / Maneuver / Velocit

Defense Dynamics

Point Vs Area Defense Military And / Or Civil Defense

- Joint Forces Synergies

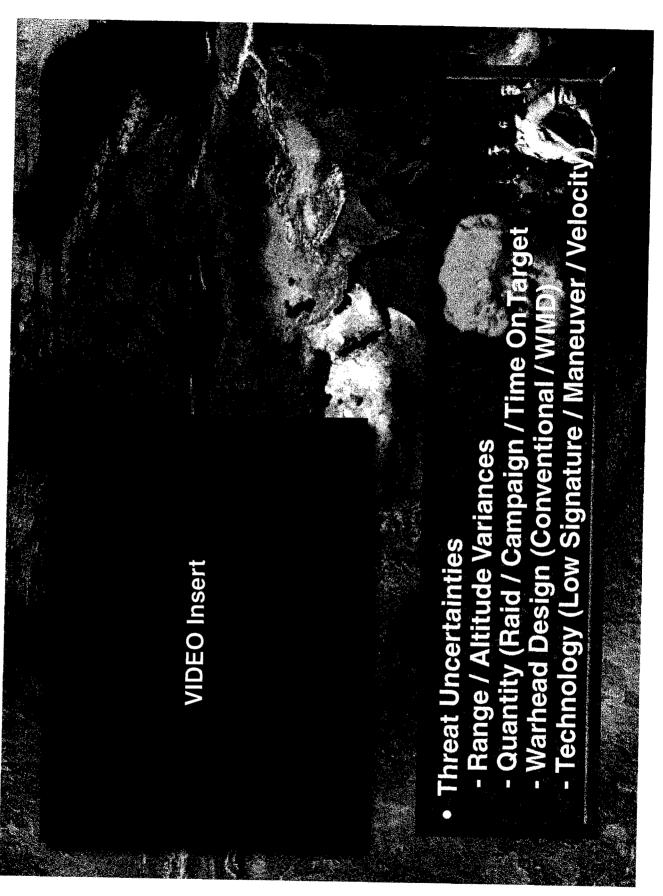
No Notice / Short Notice / Build t

**Budget Constraints** 

**Acquisition Goals** - Force Reductions

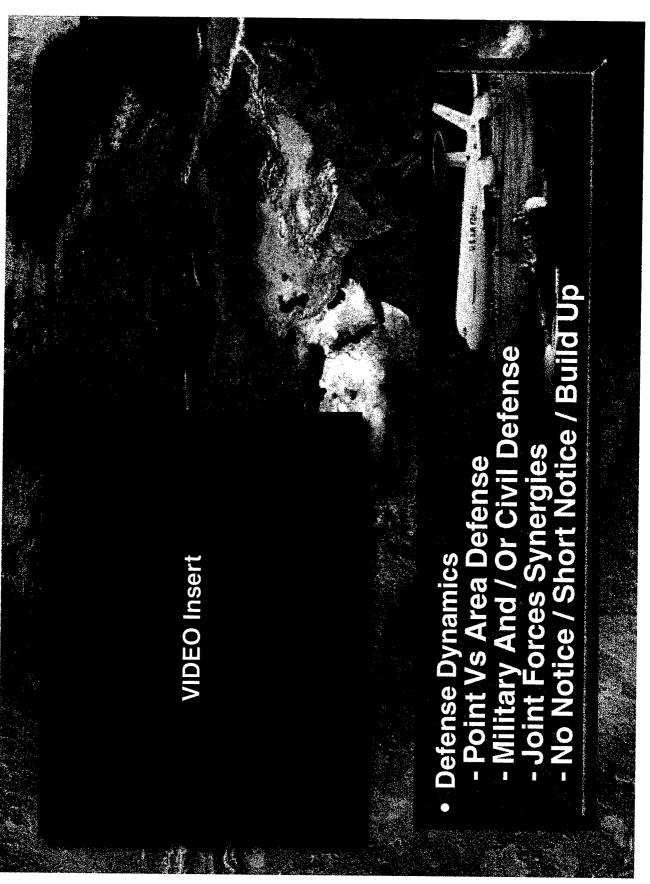
### U.S. FoS RATIONALE





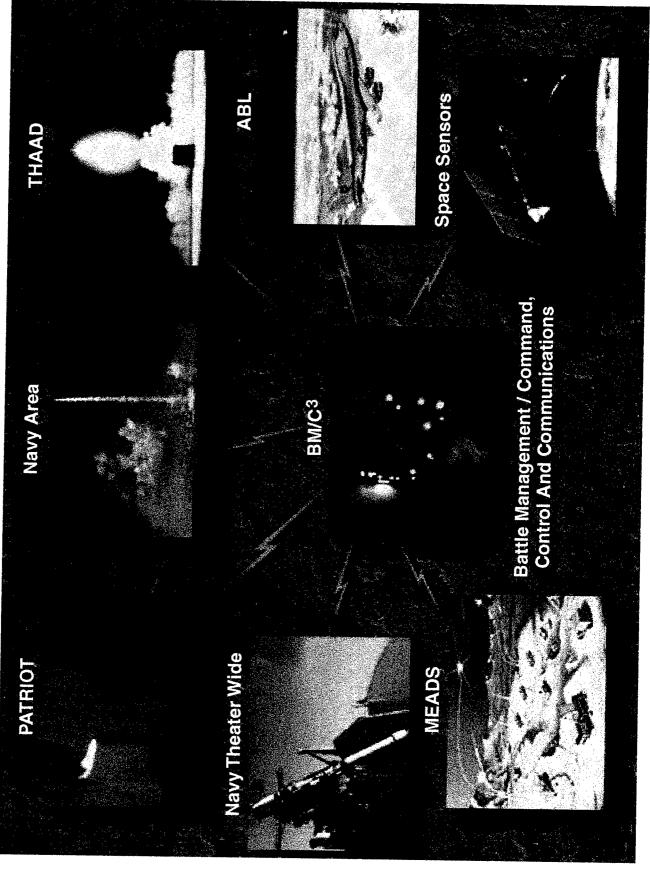
### U.S. FoS RATIONALE







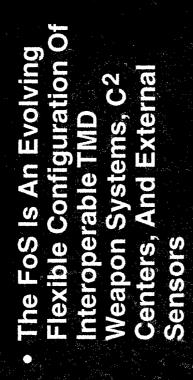
## THE TMD FAMILY OF SYSTEMS



### **FoS CONCEPT**

FY 98 FY 00 FY 03 FY 06 FY 08 FY 11









NTW NA NA ABL ABL

PAC-3

Capability

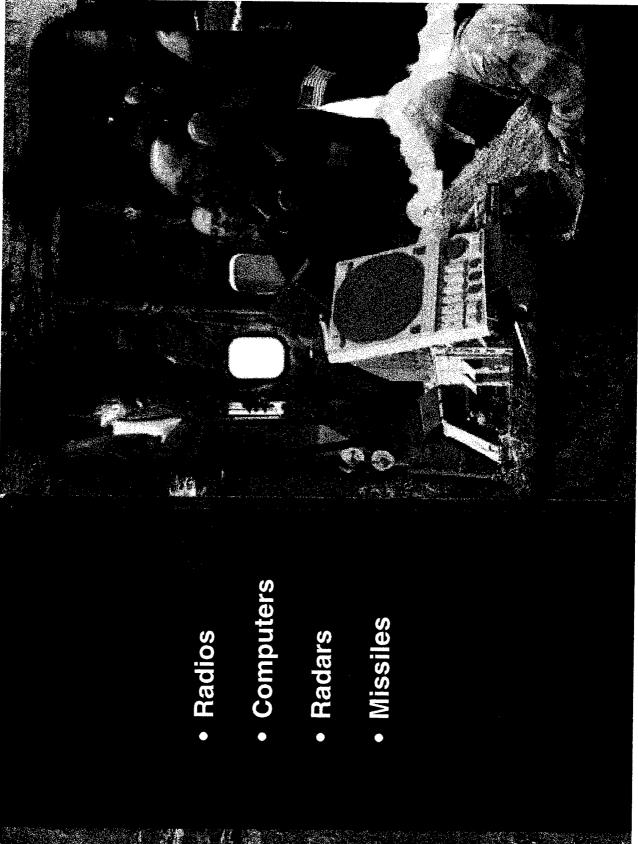
FoS

Increased FoS Capabilities

Interoperability Is Critical To FoS "Plug And Fight" Strategy

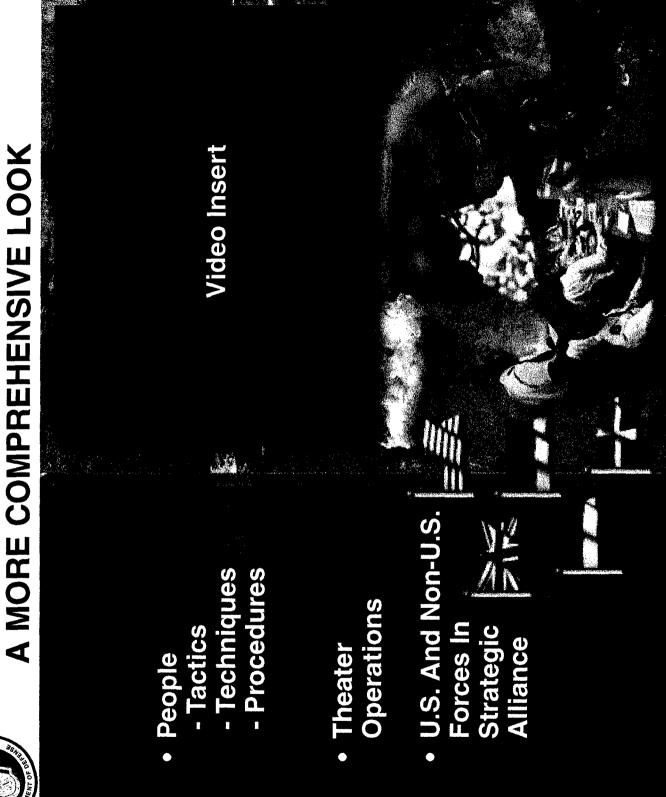
### A MORE COMPREHENSIVE LOOK TMD FoS ELEMENTS





## A MORE COMPREHENSIVE LOOK





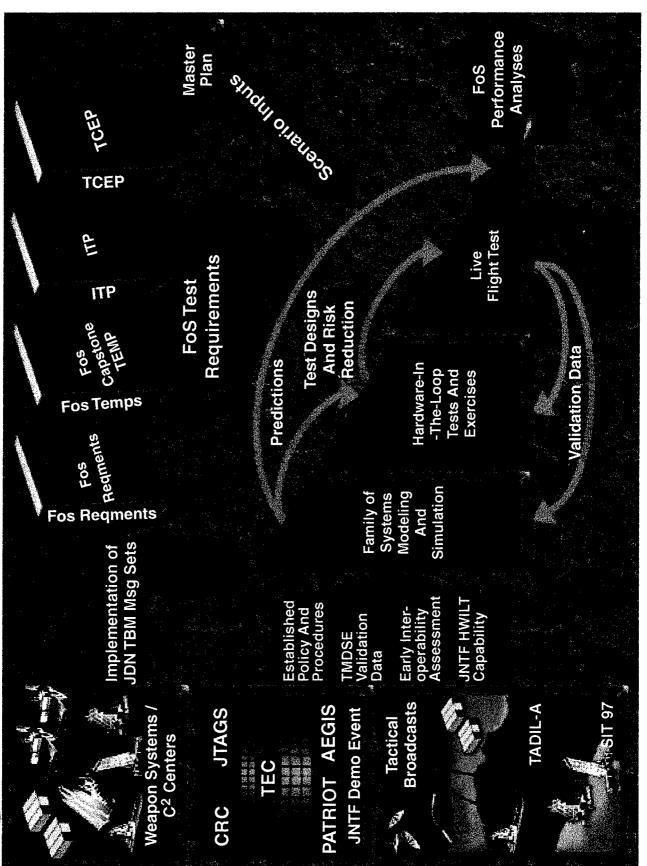
### JTAMD ARCHITECTURE: THE BIG PICTURE





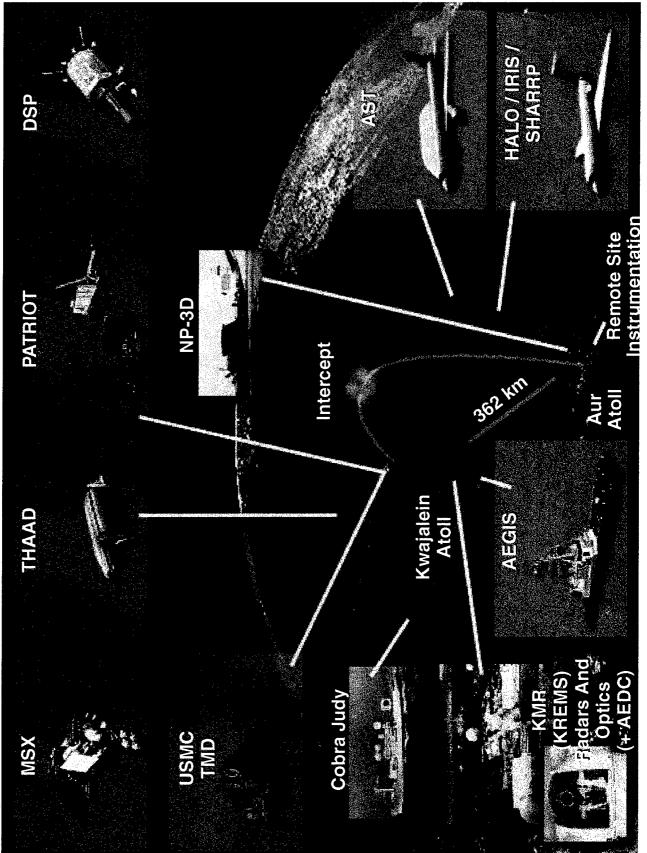
## **NEAR TERM FOS TESTING CONCEPT**





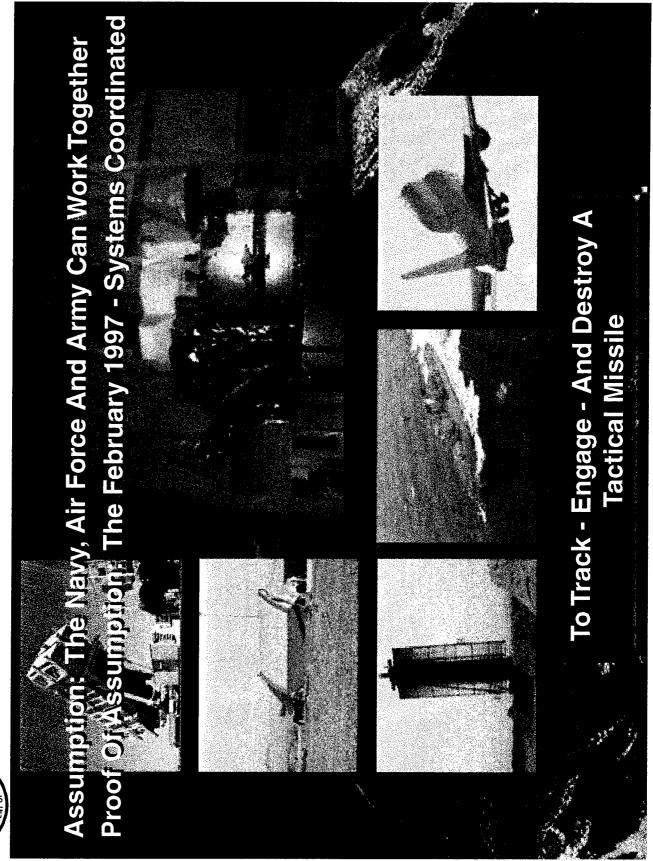
## SYSTEM INTEGRATION TESTING





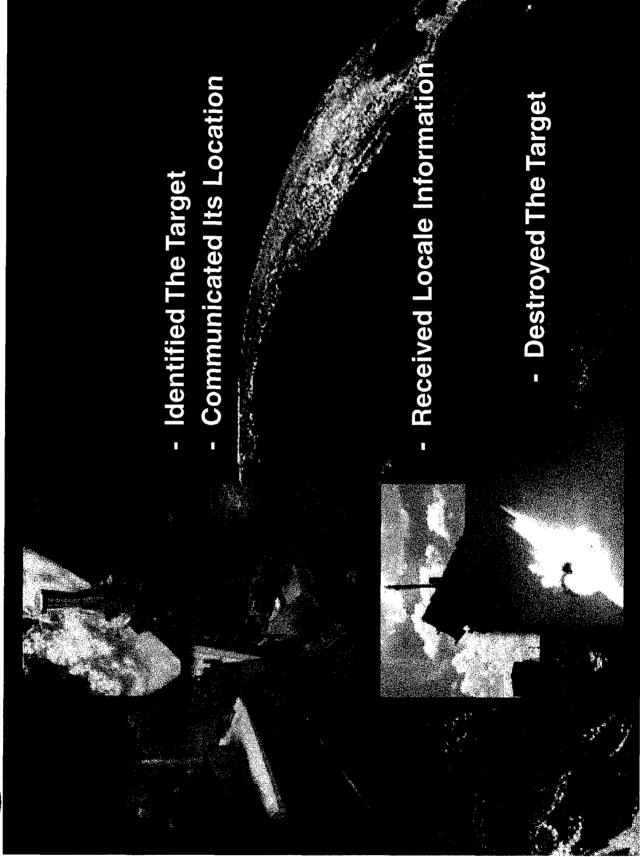
#### THE TEST





### THE RESULTS - SHARED INFORMATION -







### INTEROPERABILITY FAMILY OF SYSTEMS TAMD STRATEGIC PLAN - AN

An Interoperable TMD Family Of Systems Designed To Meet The Needs Of The Warfighter Goal:

Tasks: Define Baseline Architecture

Gain Community Support For FoS Concept

Gain Support For FoS Acquisition Plan

Develop Modeling And Simulation Tools

Identify Non-U.S. Programs That Relate To U.S. FoS

Verify FoS Performance

Prioritize FoS Acquisition Plans

ntegrate U.S. And Non-U.S. FoS Program Element

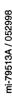


### 7th Annual AIAA / BMDO Technology Theater Air And Missile Defense Family of Systems Briefing For Readiness Conference



#### 3 AUG 98

Deputy For Theater Air And Missile Defense Ballistic Missile Defense Organization Brig Gen Richard W. Davis, USAF



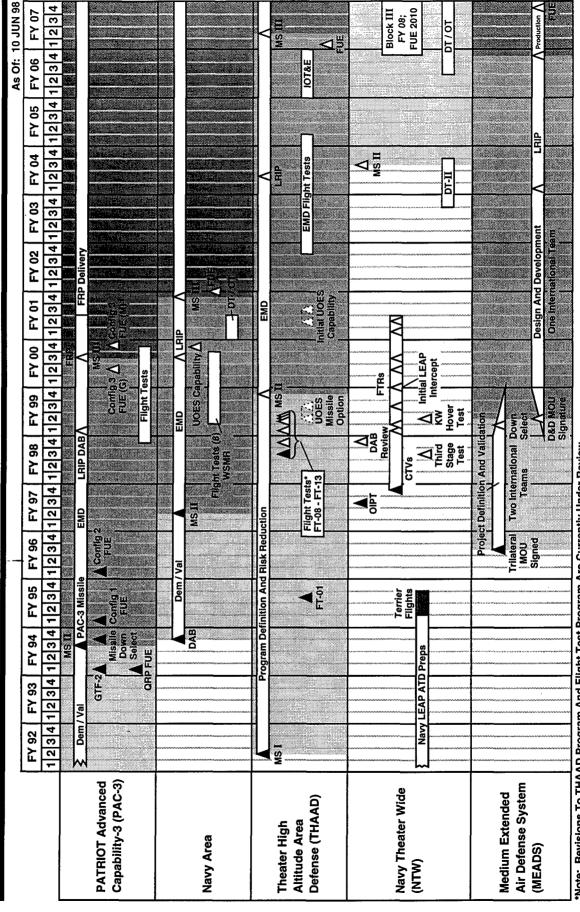


## **BMD PROGRAM ISSUES**

Theater Missile Defense

- Proliferating Threat
- Family Of Systems Do We Need The Whole Family?
- THAAD Program Testing Will It Work?
- THAAD UOES Decision
- PAC-3 Delay And Cost Overrun
- PAC-3 LRIP Decision
- MEADS Funding Beyond FY 99 ? (DoD Commitment ?)
- Joint Theater Air And Missile Defense BMDO's Role / Vision
- NTW Funding Can Additional Funds Accelerate The Program ?
- Welch Report On Testing

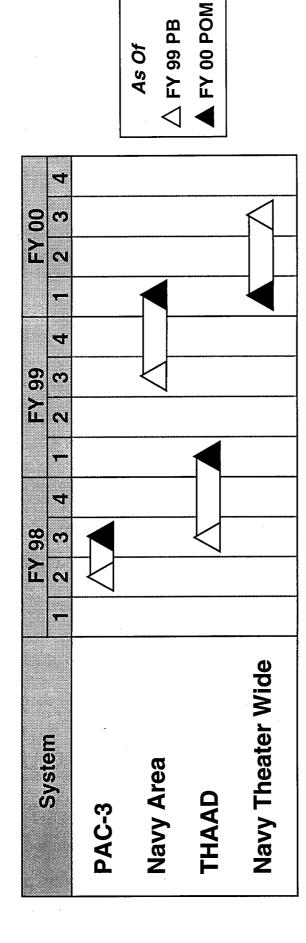
## **MDAP MASTER SCHEDULE**



\*Note: Revisions To THAAD Program And Flight Test Program Are Currently Under Review



### TBMD PROGRESS -FIRST INTERCEPTS



- Navy Theater Wide Move Results From
- Better Program Definition
- Addition Of Funding

- Addition Of Welch Report Items

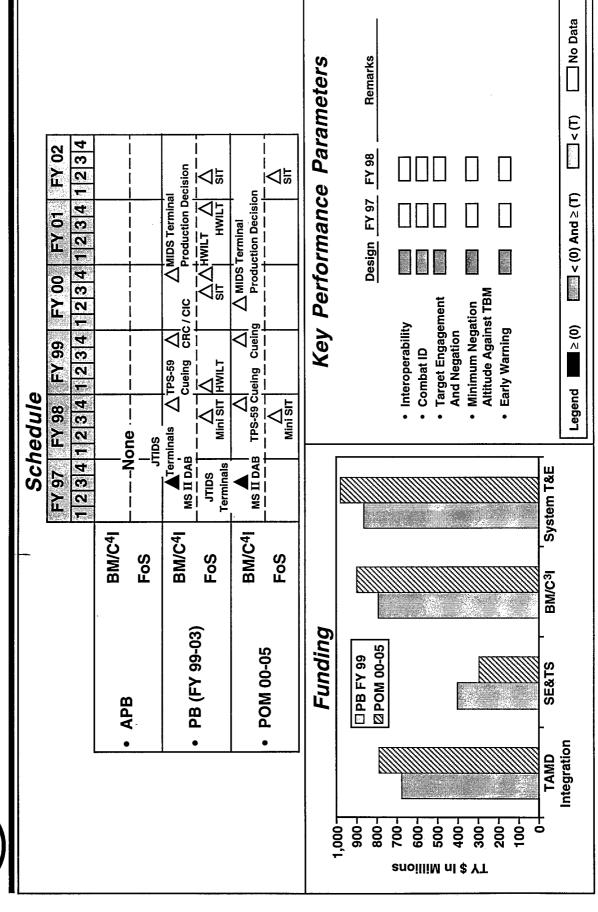
- Technical Difficulties

Slips Result From

Incorporating Schedule Realism

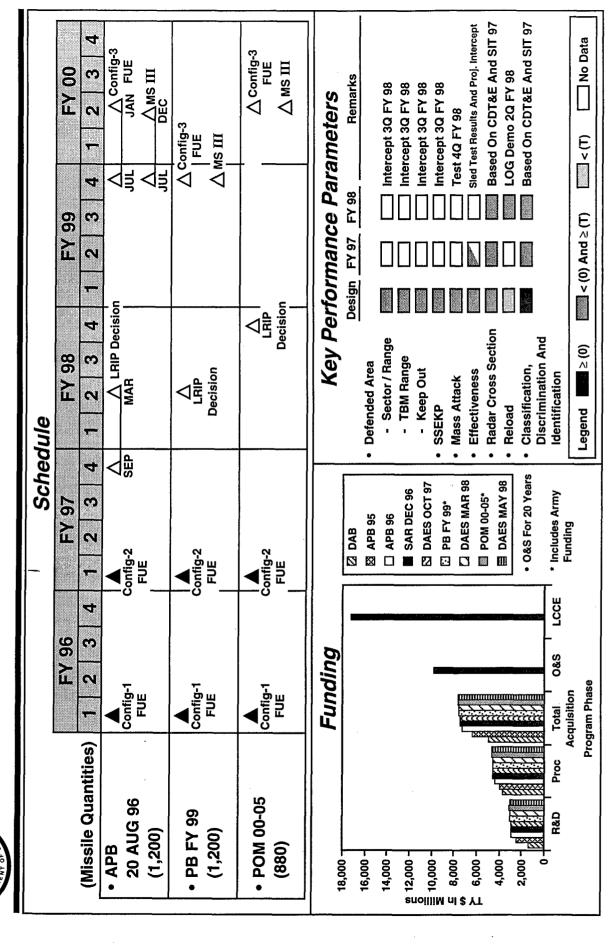
#### mj-84413 / 073198

# FAMILY OF SYSTEMS (FoS) METRICS

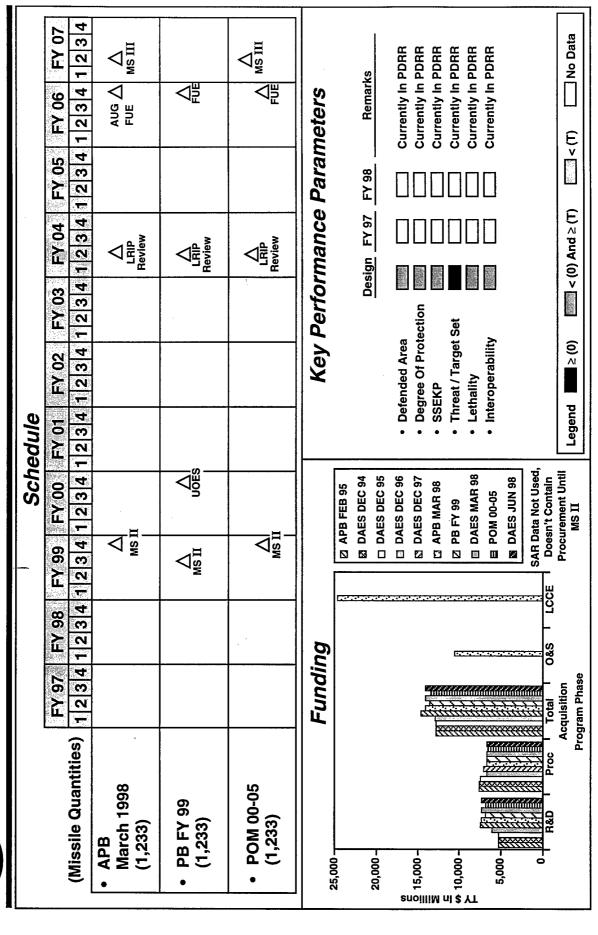




## PAC-3 PROGRAM METRICS

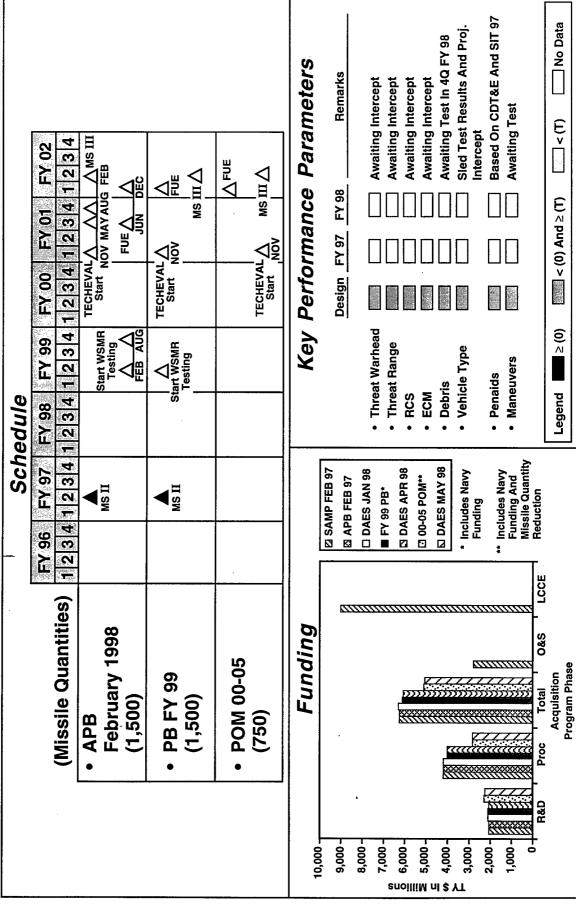


## THAAD PROGRAM METRICS



#### mj-80695 / 073198

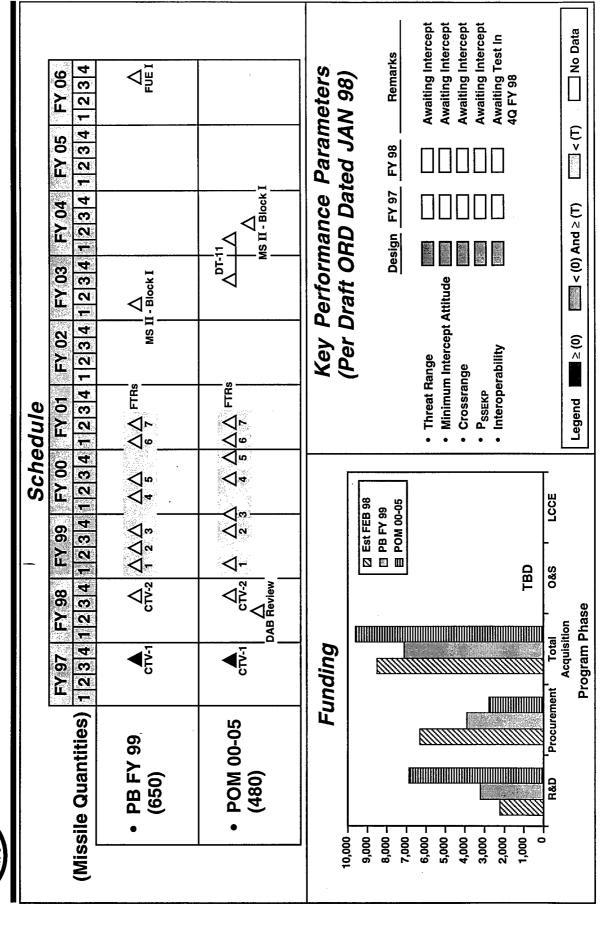
## NAVY AREA PROGRAM METRICS



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# NAVY THEATER WIDE PROGRAM METRICS



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#### mj-80697 / 073198

## **MEADS PROGRAM METRICS**

